



## Sustainable Solutions are Needed for a Finite World

Supplement your area of expertise with a knowledge of sustainability

There is broad agreement that human activities are affecting the global climate. Businesses and other organizations recognize there are risks associated with environmental and social challenges—but also potential benefits. The concept of sustainability is central to organizational efforts that respond to environmental and social concerns in ways that maximize competitive advantages.

The Certificate of Advanced Study in Sustainable Enterprise (CASSE) is offered by the Sustainable Enterprise Partnership (SEP), a collaboration among Syracuse University's Martin J. Whitman School of Management and College of Engineering and Computer Science, the State University of New York - College of Environmental Science and Forestry (SUNY-ESF), and the Syracuse Center of Excellence in Environmental and Energy Systems. The CASSE engages graduate students from across Syracuse University and SUNY-ESF, preparing professionals who understand the economic, environmental, technical and social dimensions of sustainable enterprise.

### The case for CASSE

Few U.S. business or management schools partner with science and/or engineering schools to deliver sustainability-related curricula, research and outreach. Fewer still integrate business, policy, science and practice in these pursuits. CASSE graduates are disciplinary experts—in environmental studies, forest and natural resources management, or paper and bioprocess engineering, for example—who also understand the relevance of sustainability to their fields and are ready to develop innovative approaches to complex environmental and social risks and opportunities. The CASSE core faculty collaboratively develop and deliver the required courses, while preparing you to develop innovative and adaptive approaches to complex environmental and social risks.

*A collaboration among:*

**Syracuse University**

Martin J. Whitman School of Management

College of Engineering & Computer Science

Syracuse Center of Excellence in  
Environmental and Energy Systems



State University of New York  
College of Environmental Science and Forestry

Department of Environmental Studies

Department of Sustainable Resources  
Management

# The Certificate of Advanced Study in Sustainable Enterprise (CASSE)

## Curriculum

Our CASSE is open to all currently matriculated graduate students at Syracuse University and SUNY-ESF. Certificate candidates are required to complete five courses—three core courses and two electives (15 total credits):

### **BUA/ECS 650/EST 652:**

#### **Managing Sustainability: Purpose, Principles, and Practice (3 credits)**

» offered every spring

» available as a stand-alone elective, as well as a CASSE core course

### **BUA/ECS 651/EST 796:**

#### **Strategic Management and the Natural Environment (3 credits)**

» offered through an accelerated format in late August

» available to all students who have successfully completed BUA/ECS 650/EST 652, or by instructor permission, whether or not they intend to complete the CASSE

### **BUA/ECS/EST 759:**

#### **Sustainability-Driven Enterprise (3 credits)**

» offered every spring

» prerequisites: BUA/ECS 650/EST 652, BUA/ECS 651, first CASSE elective; second elective may be taken concurrently with BUA/ECS/EST 759

Certificate candidates must articulate a rationale and focus to support the selection of electives. Students may select electives from their home school/college, which they may have taken as prerequisites to satisfy other requirements; these electives may also be counted toward another program or concentration. In addition to these course requirements, a student must attain at least a B in courses taken to fulfill the certificate requirements and a cumulative GPA of at least 3.0 to earn the CASSE.

## Career Opportunities

CASSE graduates have enhanced career opportunities based on substantive expertise and experience working in interdisciplinary teams. In fact, students, alums and employers report that this experience is a significant differentiator in securing internships and permanent positions.

“The CASSE program refined my ability to analyze the triple bottom line impacts of sustainability management and policy decision making. In my current role, these analytical skills contribute to effective project management and the identification of operational efficiencies. I was drawn to the CASSE program because it enriched my environmental studies and public administration degrees by allowing for deeper exploration of key management issues within a sustainability context.”

**Carolyn Ramsden '11 MS (ESF), MPA (MAX), CASSE**  
Project Coordinator,  
DNV KEMA Energy & Sustainability

“Nowadays there are broad opportunities for companies in the sustainability field. The CASSE program provides tools to determine and analyze the variables that affect businesses and to create a business strategy in a triple bottom line context.”

**Lina Carmago '14 M.S. (ESF), CASSE**  
Global Reporting Initiative,  
Focal Point Coordinator,  
Colombia & Latin America

“Being part of a multi-disciplinary class with engineers, accountants, environmentalists and MBA students has taught me to approach sustainability from environmental, social and economic perspectives. Learning how to calculate NPV and IRR is as important as saving the environment and CASSE has taught me exactly that and much more. I credit CASSE for preparing me for my first job and I hope to use all that I've learned throughout my career.”

**Aayushi Patel '14 M.S. (ESF), CASSE**  
EDF Climate Core Fellow